

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Which of the following represents typical power steering pressures? 1) \_\_\_\_\_  
A) Less than 150 psi when straight ahead  
B) About 450 psi when cornering  
C) Over 750 psi when slowly maneuvering a parking lot  
D) All of the above are correct.
- 2) A power steering system should be checked for \_\_\_\_\_. 2) \_\_\_\_\_  
A) power steering fluid level  
B) condition of the drive belt  
C) condition of the hoses  
D) all of the above
- 3) Used in an integral power steering gear, the rotary valve contains all of these EXCEPT a(n) \_\_\_\_\_. 3) \_\_\_\_\_  
A) torsion bar  
B) inner valve element  
C) pinion drive gear  
D) outer valve element
- 4) The power steering fluid is usually contained in a \_\_\_\_\_ reservoir. 4) \_\_\_\_\_  
A) cast iron  
B) remote mounted  
C) flexible  
D) low mounted
- 5) Which type of variable effort steering design uses a variable bi-directional magnetic rotary actuator built into the steering rack? 5) \_\_\_\_\_  
A) Magnasteer  
B) EVO  
C) TFE  
D) SSS
- 6) Two technicians are discussing the proper procedure for bleeding air from a power steering system. Technician A says that the front wheels of the vehicle should be lifted off the ground before bleeding. Technician B says that the steering wheel should be turned left and right with the engine off during the procedure. Which technician is correct? 6) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

- 7) A power steering pressure gauge is being used to diagnose a system problem on a rack and pinion system. When the wheels are turned all the way left, a pressure reading less than specification is found. When the gauge valve is closed, the pressure reading is within specifications. Technician A says that the pump pressure regulator is bad. Technician B says that there is a problem in the rack assembly. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) Technician A says that some power assist systems use an external cooler for the power steering fluid. Technician B says that the cooler is located in the pressure line, before the steering gear box. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) What can cause hard steering on a vehicle equipped with a hydraulic power assisted steering system? 9) \_\_\_\_\_
- A) Low tire pressure
  - B) Slipping power steering pump drive belt
  - C) Low or contaminated power steering fluid
  - D) Any of the above
- 10) Where is the rotary control valve located on a power rack and pinion steering gear? 10) \_\_\_\_\_
- A) In the rack tube, just behind the rack seal retainers
  - B) Behind the mounting brackets
  - C) Under the dampening adjuster
  - D) Between the steering gear input shaft and the pinion gear

## Answer Key

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1) D

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2) D

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3) C

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4) B

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5) A

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6) C

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7) B

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8) A

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9) D

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10) D

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